

FIG. 1A-1

Murine	TREX	1	MTGYTMLRNGGV	ENG	QTCMLRWSNR	IRLTWLSFTLFI	LVFFFLIAHYVLTTLDEADEA
Human	TREX	1	MTGYTMLRNGG	AG	NGGQTCMLRWSNR	IRLTWLSFTLFV	LVFFFLIAHYVLTTLDEADEA
Murine	TREX	61	GKRIFGPRAG	SEL	CEVKHVLDLCR	IRESVSEELLQLEAKRQELNSEIAKLNKHEACKKS	
Human	TREX	61	GKRIFGPRV	ENEL	CEVKHVLDLCR	IRESVSEELLQLEAKRQELNSEIAKLNKHEACKKS	
Murine	TREX	121	IIENAKQD	LLQLKNVLS	QTEHSYKELMAQN	QPKLSLPIRLPEKDDAGLPPPKVTRGCR LH	
Human	TREX	121	IIENAKQD	LLQLKNVLS	QTEHSYKELMAQN	QPKLSLPIRLPEKDDAGLPPPKVTRGCR LH	
Murine	TREX	181	NCFDYSRCPL	TSGFPV	VYDSDQFA	FGSYLDPLVKQAFQAT	RANVYVTENAAIACLYV
Human	TREX	181	NCFDYSRCPL	TSGFPV	VYDSDQVE	FGSYLDPLVKQAFQAT	RANVYVTENADIACLYVI
Murine	TREX	241	LVGEMQEPT	VLRLPAD	LEKQLF	SLPHWRTDGHNVII	INLSRKSDTQNLLYNVSTGRH-VAQ
Human	TREX	241	LVGEMQEPT	VLRLPAD	LEKQLM	SLPHWRTDGHNVII	INLSRKSDTQNLLYNVSTGRAMVAQ
Murine	TREX	300	STLVAAQYR	AGFD	LVVSP	LHAMSEPNFMEI	PPQVPVKRKYLFTFQGEKIESLRSSLQEA
Human	TREX	301	STFYITVQYR	PGFD	LVVSP	LHAMSEPNFMEI	PPQVPVKRKYLFTFQGEKIESLRSSLQEA
Murine	TREX	360	RSFEEEMEGD	PPADYDDRI	IATLKAVQDS	KLQDLVLEFTCKNQPKPSLPT	TEWALCGERED
Human	TREX	361	RSFEEEMEGD	PPADYDDRI	IATLKAVQDS	KLQDLVLEFTCKNQPKPSLPT	TEWALCGERED
Murine	TREX	420	RLELLKLST	FALIITPGDPR	IL	ISSGCATRLFEAL	EVGAVPVVLGEQVQLPYHMLQWNE
Human	TREX	421	RLELLKLST	FALIITPGDPR	ILV	ISSGCATRLFEAL	EVGAVPVVLGEQVQLPYQDMLQWNE
Murine	TREX	480	AALVVPKPR	VT	EVHFLRLSL	SDSDLLAMRRQGRFL	WETYFSTADSI
Human	TREX	481	AALVVPKPR	VT	EVHFLRLSL	SDSDLLAMRRQGRFL	WETYFSTADSI

FIG. 1A-2

Murine	TREX	540	PAAPIREEVAAEIPHRSGKAAGTDPNMADNGDLDLGPVETETPPYASPKYLRNFTLTVTDC
Human	TREX	541	PAAPIREEAAAEIPHRSGKAAGTDPNMADNGDLDLGPVETETPPYASPRYLRNFTLTVTDF
Murine	TREX	600	YRCWNSAPGRFHLFPHTPDPVLPSEAKFLSGTGFRPIGGAGGSGKEFQAALGGNVQR
Human	TREX	601	YRSWNCAPGPFHLFPHTPDPVLPSEAKFLSGTGFRPIGGAGGSGKEFQAALGGNVPR
Murine	TREX	660	EQFTVVMLTYEREEVLMNSLERLNGLPYLNKVVVWVNSPKLPSEDLLWPDIGVPIMVVRT
Human	TREX	661	EQFTVVMLTYEREEVLMNSLERLNGLPYLNKVVVWVNSPKLPSEDLLWPDIGVPIMVVRT
Murine	TREX	720	EKNSLNNRFLPWNEIETEAILSIDDDAHLRHDEIMFGFWWREARDRIVGFPGRYHAWDI
Human	TREX	721	EKNSLNNRFLPWNEIETEAILSIDDDAHLRHDEIMFGFRVWREARDRIVGFPGRYHAWDI
Murine	TREX	780	PHQSWLYNSNYSCELSMWLTGAFFHKYYAYLYSYVMPQAIRDMVDEYINCEDIAMNFLV
Human	TREX	781	PHQSWLYNSNYSCELSMWLTGAFFHKYYAYLYSYVMPQAIRDMVDEYINCEDIAMNFLV
Murine	TREX	840	SHITRKPPIKVTSRWTFRCPCGCPQALSHDDSHFHERHKCINFFVKVGYGMPLLYTQFRVD
Human	TREX	841	SHITRKPPIKVTSRWTFRCPCGCPQALSHDDSHFHERHKCINFFVKVGYGMPLLYTQFRVD
Murine	TREX	900	SVLFKTRLPHDKTKCFKI
Human	TREX	901	SVLFKTRLPHDKTKCFKI

FIG. 1B

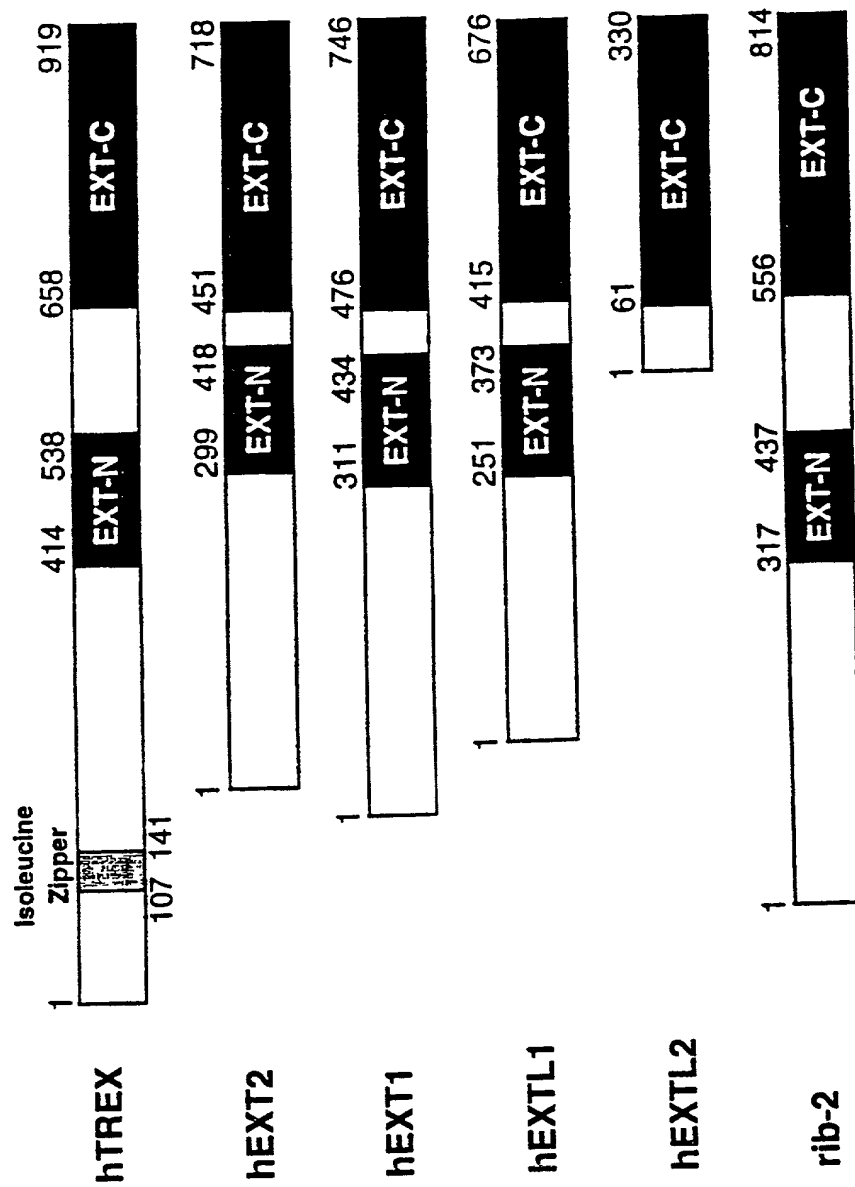


FIG. 1C

hTREX	414	LGGE-----REDRLLEIKLSHKAIIITPGDPRRVISSQCATRLFEALVGVAVFWLGEQVQLEFYQDMLQ
hEXT2	299	RCCHK-----HQVFDYPQVIOETEGVVL--RGARL-----GQA-VLSDVLOAGCVPWVIADSYIIPFSEVLD
hEXT1	311	RCDRDNTYEYKVDYREMHNAITFGVLP--RGRRL-----GSF-RELEALONACVPPVMTSNGWELPFSEVIN
hEXTL1	251	RCEQDPGPGQT-QROETTPNATPCCHIS--GHRPE---AAS-RELOALONACVPPVMTSNGWELPFSEVIN
rib-2	317	KCSQENCSLERR-N-QLIGSSHQA-----FILPSEMFFQDFHSSDGLGCIPIIILSNSQLLPPFQDLID
hTREX	478	WNEAALAVKPRVTEAHFLDRLSDSDLAIRRRQGRFLNRTVPTADSIENVTIAMTRTI
hEXT2	358	WKRA SVVPEEKMSDVYSILQSI PQROTEEMQCARWFWEAYFOSIKATALALIOIENDRI
hEXT1	374	WNOAVIGDERLLLOIPSTIRSIHQDKLNLFOCTQELWEAVESSEVEKTVLTFEITQDRI
hEXTL1	313	WTKANIVADERLRPLQVLAALCEMSPARVIALROCTQELINDAVESSEVEKVIHTTTEVIQDRI
rib-2	377	WRRRTYRLPLARLPEAHFIVGFEISDMIEVRVGVGLFYETLADRHLLARSLLAALRYKL

FIG. 1D

hTrex	658	VPREQFVAVMIL	-----MEREEVIMNSERLNGLE	YENAVVAMNSP-KLPSEDLINBEDI	---GVBIMVVRTEK
hEXT2	451	PQSQGFALIVL	-----MDVESFRVITEVSKVPS	SKLLAVMNNONKPNPESDLWEKI	---RVLKAVRTAE
hEXT1	476	PPSK-RTAVIHAVTPLV	QSQPVKLVAAAKSQCAQ	ILVWNC-D-KPLPAKHRWPA	---TAVPVVIEGES
hEXTL1	415	DEGR-ESALIW-VGPP	---GQPPKGIQAVAGSQHCAQL	LLASNE-RPLPS--RWBE	---TAVPLTVIDGHR
hEXTL2	61	STMDS	TLIMQI	-----KMRITDLILKLENHYQAVEN	HNHVIVAMNNIGEKADE
rib-2	556	RQREQFIVMLL	-----VEKDAVITGALERLHQL	BMENKILVAMNNV-NRDEPD-SWPSL	---HIPVEFIRVAE
hTrex	723	ISLNNR	ILBMNEIRDEALISIDDI	-----AHRHDEIMGGRVREARDRINGE	BCRYHAWD
hEXT2	517	NKLSNR	FIIDDETEVAVAIIDDE	IIIMTSDLOLQGYEWREPRDLVGYE	GRLLHWH
hEXT1	544	KVMSRRL	LENIIIDAVSEREDTV	-----TQSHERTVGVPARSHFWD	-----NSKERWGTSK
hEXTL1	477	KV-SDR	YVYSTPRIDAIISIDARSS	-----LSHSEVDSALQSHERMV	GGELTSSHFWD
hEXTL2	129	NRMRNR	LQVPELETNVIMVDD	TL-ISTPDLVAVSSWQOEPDOIGA	VPRKHVSTSSGIYSYGSFEMQAP
rib-2	620	NNNNNR	VEWDRFEDERAVEISIDDI	-----IDMQQIILNRNENRDRWVG	PARHHAR
hTrex	791	YS	---CPLSMVLTCARFI	-----KQAVKYSVMVROAURDMVLEYING	EBJAMNELVSHLTRKPP
hEXT2	586	W	---TNEVSMVLTCARFYH	-----KMFNLITVTKKVGDKNMVBAHMNGED	IAMNELVANNVIGKAV
hEXT1	612	W	---INDYSMVLTCARIMH	-----KQTHLYSHYLEASLKNMVDOLANGED	ILMNFVSAVTKLPP
hEXTL1	544	R	---TNEF	SMVLTITVAVYH	-----RVMHTIFHLSLEKALRTLAP
hEXTL2	201	GSGNGDQY	SMVLTCARSHFNSKULE	-----LFO-ROBAAVHALIEDTONGDD	IAMNELIIAKHIGKTSGLFKPVNMDN
rib-2	686	HT	---CQMSMILITCAFIH	-----KNMLTAVIMEPAEERHNSIKNGED	IAMNYIVSHLTRKPP
hTrex	859	CPGC	---POALS	-----HDDSHHEHKK	GMNPFVKVVGMPILYTOFVPSVLEKTRLP
hEXT2	654	CPCTAIDGLS	-----LDQTHMVERSE	LENKREASVFGTMEKVEHAD	EVHVKDDFH-EKLSFEPNIGSL
hEXT1	680	ETMMQTSRAS	---RWALPDHFAQOS	GMNTFASWFGYMP	-----IHSQMRLEVELEFKDOVS
hEXTL1	612	EAAPLAPG	PGPRPKPP	-----APAPDC	GMNIOINAAFGHVP
hEXTL2	272	-LEKETNSQY	SGMWHRAEHALQ	SYGINKLVNIDSNP	RYSNIMISO--FG--FIPYANYK
rib-2	754	CHTC	---TESLY	-----KEGTHHEKHEE	MRITKIINGNPKSOFHASTIEFKTRLP

FIG. 1E-1

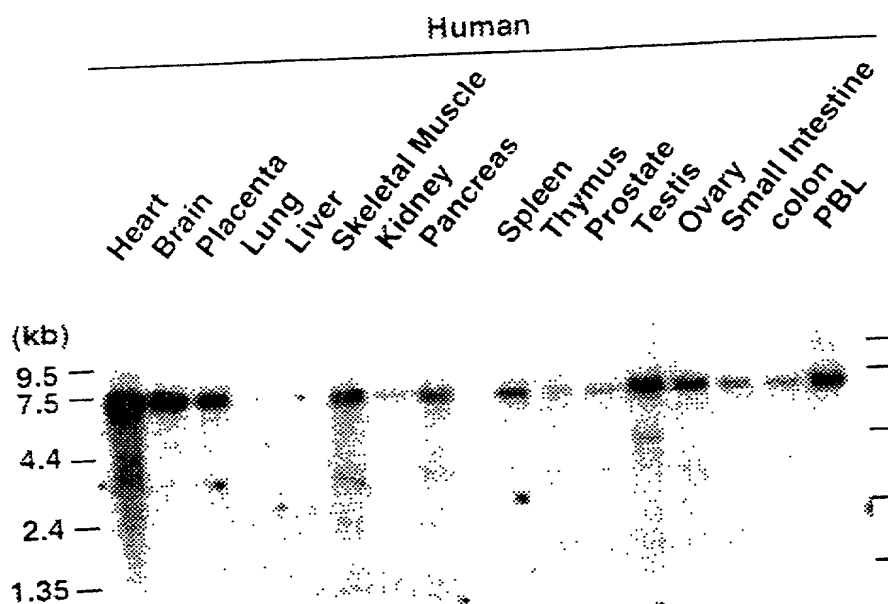


FIG. 1E-2

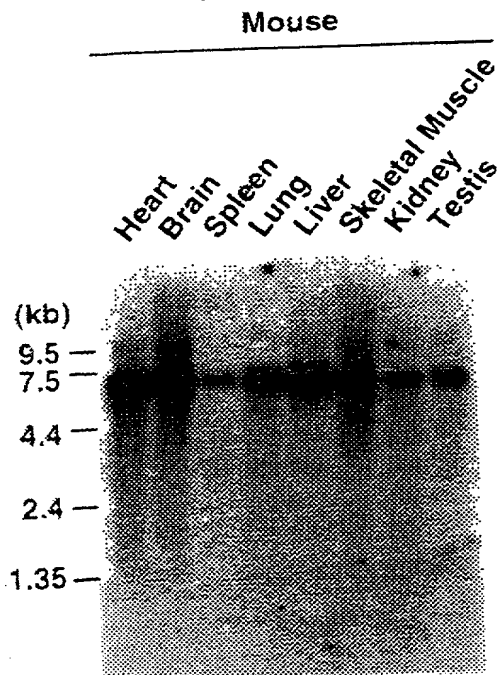


FIG. 1F

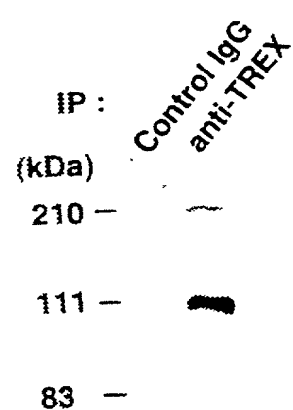


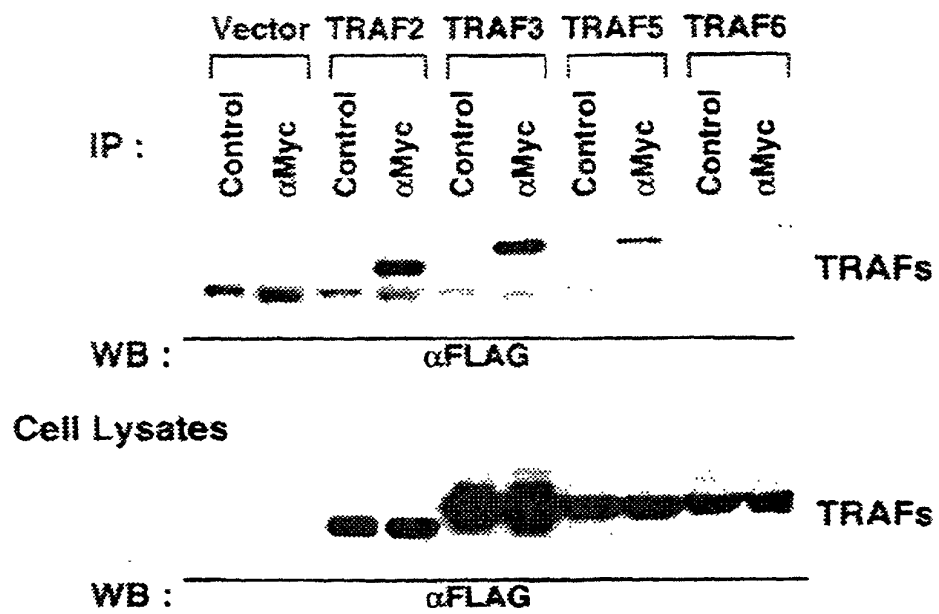
FIG. 2A *In vivo* binding

FIG. 2B

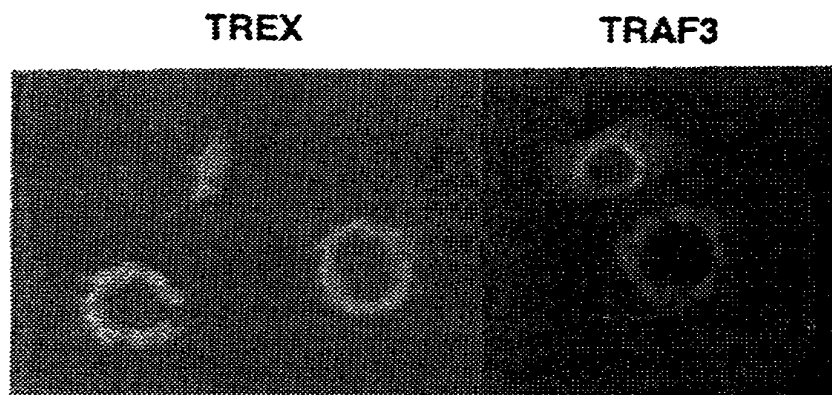


FIG. 3

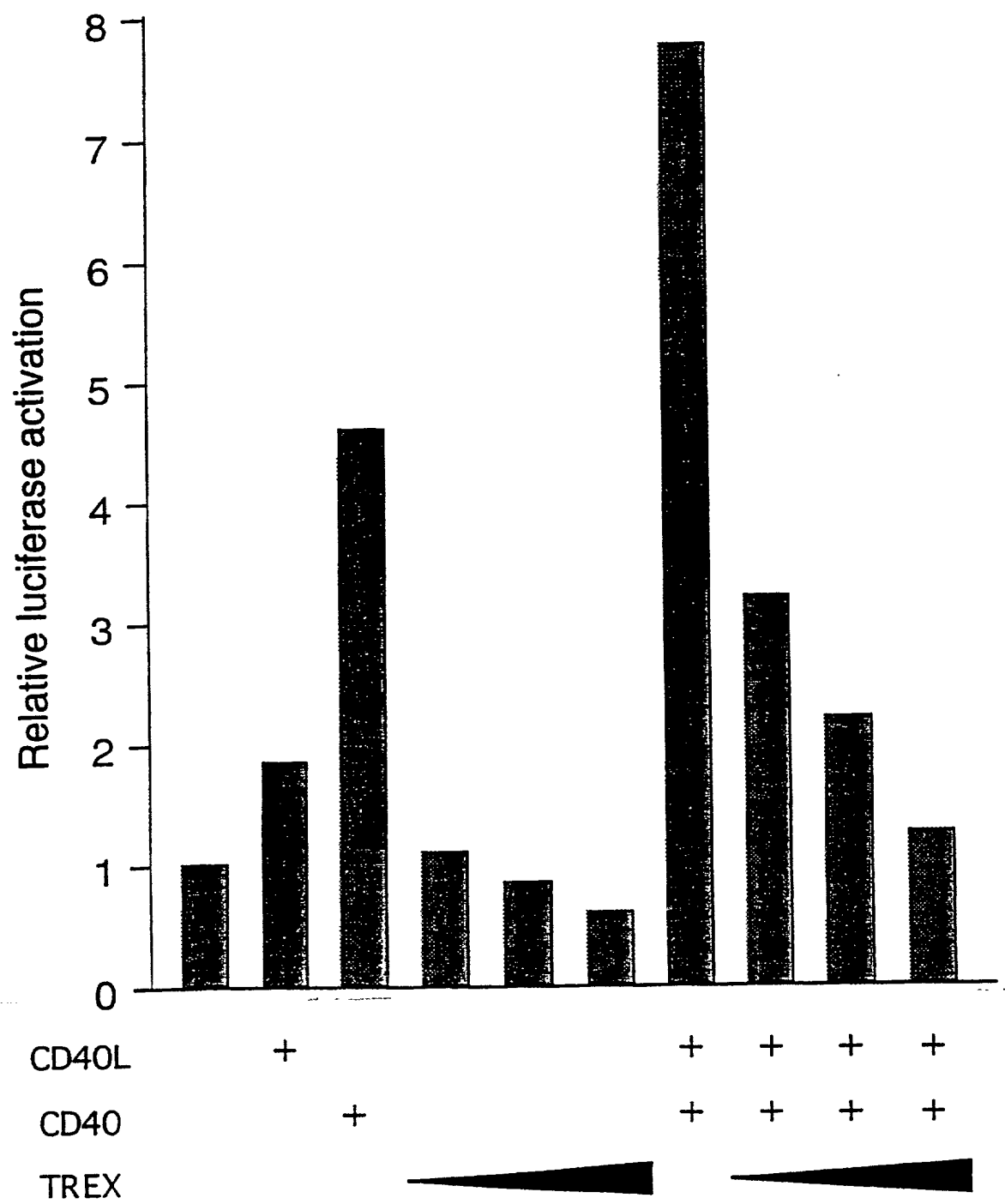
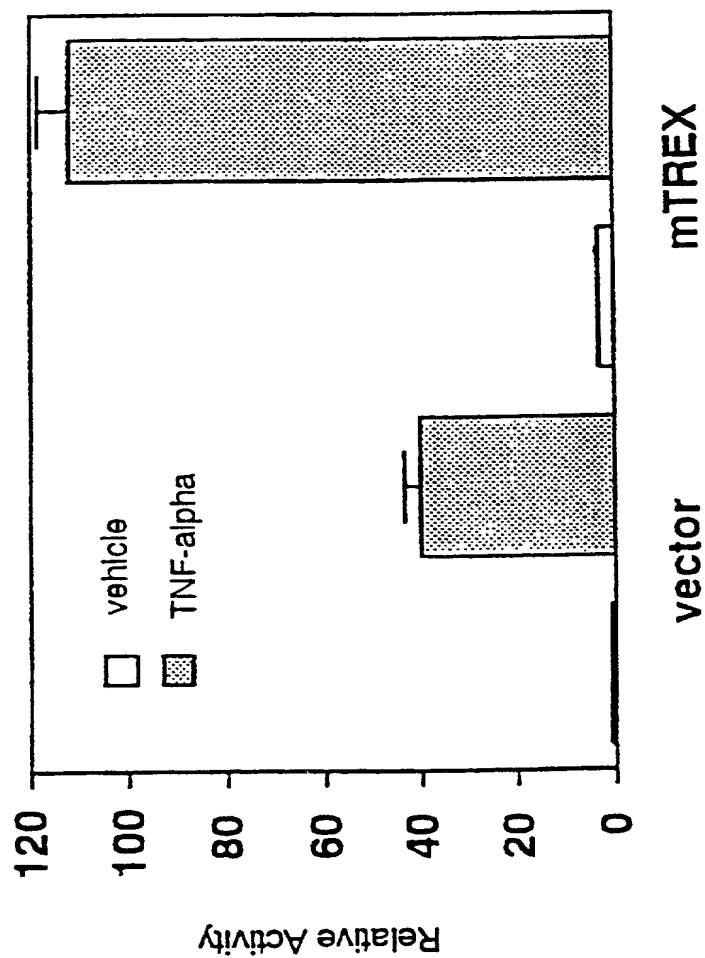


FIG. 4

Effect of mTREX on TNF-alpha-induced
NF-kappaB activation in HEK 293 cells



n=3 980707

FIG. 5B

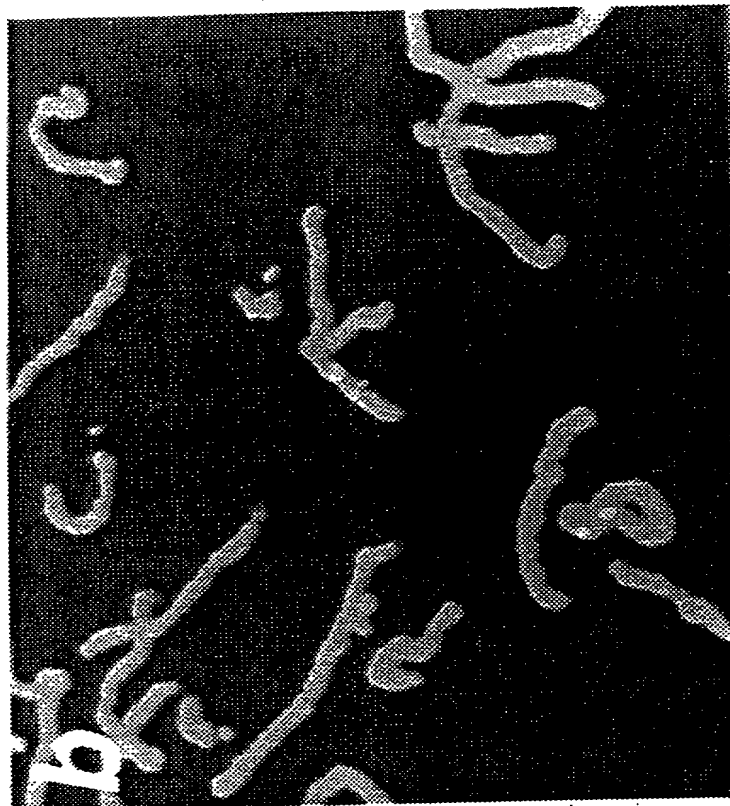


FIG. 5A

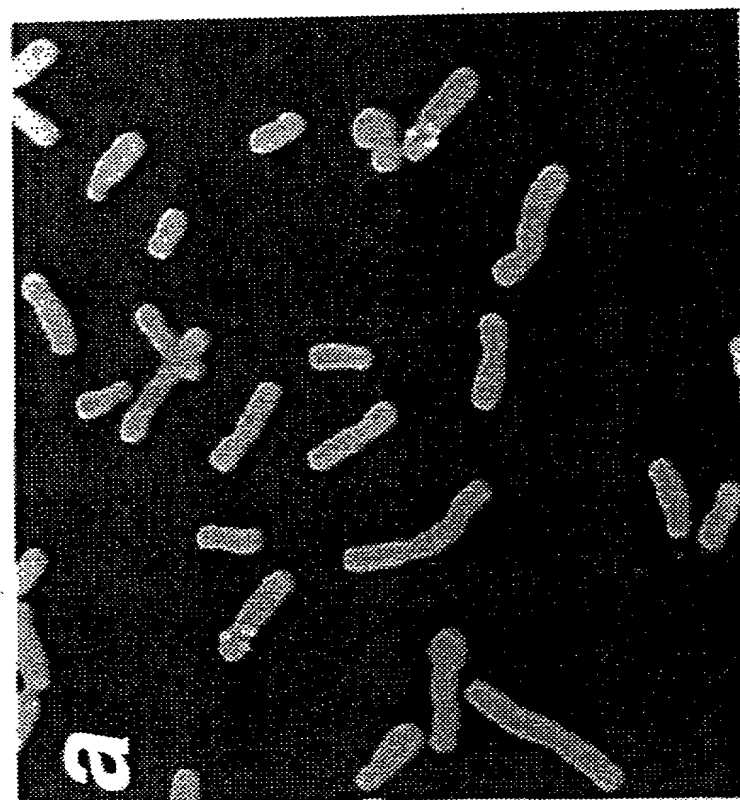


FIG. 6

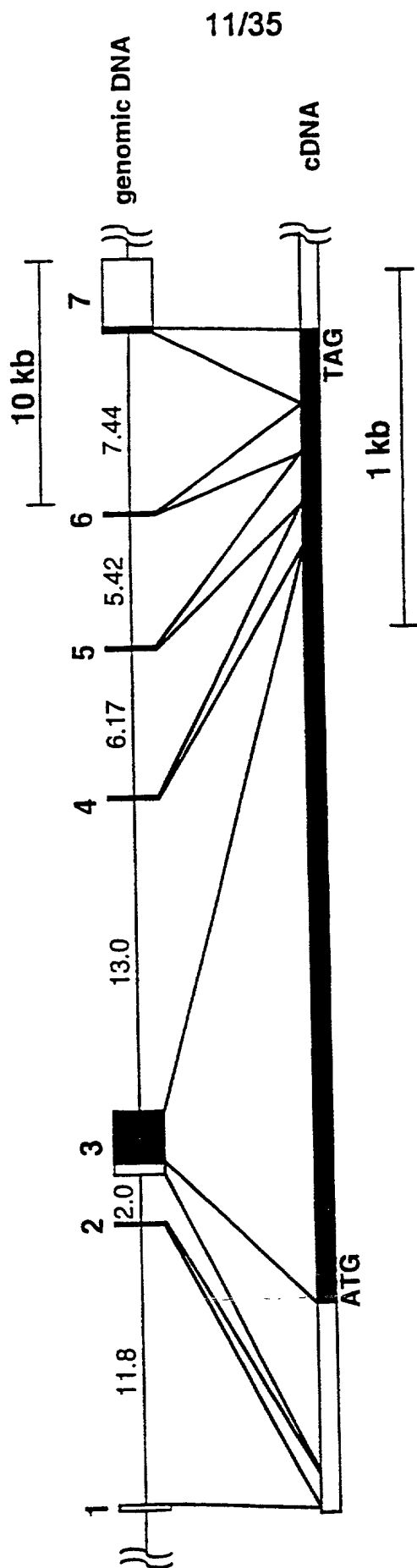


FIG. 7A-1

cctgatcgtt	ggtagtggca	tggaggacgg	ggctggcatt	tcagactgcc	agctgttttt
accagccgct	gcatcacttg	aatagaagct	atgcatattg	gctggccgac	aaagccaagg
gacaaaagct	atggccgtta	aaatgggtccc	tctgagtcca	gggctctttc	cctggccttt
agcaccatgg	atctcttcc	tttcatccca	tcagcaatgt	ggtaccttct	tctacttgat
gatgacagct	gatacttcag	atttgcctga	ctaaggttag	aaacctgaat	cgctgtgagg
aagatgaaat	ttccatttta	cttgggtgcct	tgtgcagggg	gcacactgat	ccttccagaa
acttgtgtgt	gaaaagaggt	tgcgttttgt	cagacagact	catgggttatg	gcgagcgcac
cgacgtgatc	agagtgggca	agaggcacag	cgaactcatg	acaggctata	ccatgttgcg
gaatggggga	gtggggaacg	gtggtcagac	ctgtatgctg	cgctgggtcca	atcgcatccg
gctgacatgg	ctgagtttca	cgctgttcat	catcctcgtc	ttcttcccc	tcattgctca
ctattacctc	accactctgg	acgaggcaga	cgaggctggc	aagcgcctct	tgggccctcg
ggctggcagt	gagctctgtg	aggtaaagca	tgtccttgat	ctctgtcggg	ttcgtgagtc
tgtgagcgaa	gagcttctac	agctcgaagc	caagcggcag	gagctgaaca	gcgagattgc
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tccaccccc	aaggctcactc	ggggttgccg	ccttcacaac	tgctttgatt	actctcgttg
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gtacaacgtc	agtacaggcc	gccatgtggc	ccagtccacc	ctctatgctg	cccagtacag
agctggcctt	gacctgggtcg	tgtcaccctt	tgtccatgct	atgtctgaac	ccaacttcat
ggaaatccca	ccgcaggtgc	cagttaagcg	gaaatatctc	ttcactttcc	agggcgagaa
gatcgagtct	ctgagatcta	gccttcagga	ggcccgttcc	ttcgaggaag	agatggaggg
cgaccctccg	gccgactatg	acgatcgcat	cattgccacc	ctaaaggctg	tacaggacag

FIG. 7A-2

caagctggat	caggtgctgg	tagaattcac	ttgcaaaaac	cagccgaagc	ctagcctgcc
gactgagtgg	gcactgtgtg	gggagcggga	agaccgcctg	gagttactga	agctctccac
cttcgccttc	atcatcactc	ccggggaccc	gcgcctgctc	atttcactctg	ggtgtgccac
gcggctcttc	gaggccctgg	aggtgggggc	cgtgccgggtg	gtgctcgggg	agcaggtgca
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cgtcacagag	gtccacttcc	tgttacgaag	tctttcagac	agtgatctgt	tggccatgag
gcggcaaggc	cgctttctct	gggagacctc	cttctccacc	gcagacagta	tttttaatac
cgtgctggcc	atgattagga	ctcgaattca	gatcccagct	gctcccatcc	gggaagaggt
agcggctgag	atcccccatc	gttcaggcaa	agcagctgga	actgacccca	acatggctga
caatggggac	ctggacctgg	ggccggtaga	gacagaacca	ccctatgcct	cacctaaata
cctccgcaat	ttcactctga	ctgtcacaga	ctgttaccgt	ggctggaact	ctgccccggg
acggttccat	ctttttcccc	acacaccctt	tgatcctgtg	ttgcctctctg	aggccaaatt
cttgggctca	gggactggat	ttcggccgat	cgggtggcggg	gctgggggct	ctggcaagga
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ctacgagcgg	gaggaagtgc	tcatgaactc	cctggagaga	ctcaacggcc	tccctacctt
gaacaaggta	gtggtggtgt	ggaactctcc	caagctgccc	tccgaggacc	ttttgtggcc
agacattggt	gtccccatca	tggtcgtccg	tactgagaag	aacagtttga	acaatcggtt
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tgcttacctg	tattcttatg	tgatgcccc	ggccatccgg	gacatggtgg	acgagtacat
caactgtgag	gatatcgcca	tgaacttcc	tgtctcccac	atcacacgga	aaccccccat
caaggtgaca	tcaaggtgga	cttttcgatg	cccagggtgc	cctcaggccc	tgtcccatga
tgactctcat	tttcacgagc	ggcacaagtg	tatcaacttt	tttgtcaagg	tgtacggcta
tatgcctctc	ttgtacacac	agttcagggt	ggactccgtg	ctcttcaaga	cccgcctgcc
ccatgacaag	accaagtgct	tcaagttcat	ctagggcctt	gcagttctga	ggagacaatg
agcagagcga	gggggagtca	ccctcaaggt	tcccaaggtg	tcgaaggtcc	ttggggacat
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gctgtctttc	attttgaaat	cagccacact	gggcctggga	tcctggtcag	agactcaggn
cgtctgcaca	gggcactgac	tgatagcgaa	cactgaggac	tgttcataag	cccaggaca

14/35

FIG. 7B-1

10 20 30 40 50 60
cctgatcgttggttagtggcatggaggacggggctggcatttcagactgccagctgttttt

70 80 90 100 110 120
accagccgctgcacacttgaatagaagctatgcatattggctggccgacaaagccaagg

130 140 150 160 170 180
gacaaaagctatggccgttaaaatgggtccctctgagtcagggctctttccctggctttt

190 200 210 220 230 240
agcaccatggatctcttccctttcatcccatcagcaatgtggtaccttcttctacttgat

250 260 270 280 290 300
gatgacagctgatacttcagatttgccctgactaagggttagaaacctgaatcgctgtgagg

310 320 330 340 350 360
aagatgaaatttccattttacttgggtgccttgtgcagggagcacactgatccttcagaa

370 380 390 400 410 420
acttgtgtgtgaaaagaggttgcgttttgtcagacagactcatggttatggcgagcgatc

430 440 450 460 470 480
cgacgtgatcagagtgggcaagaggcacagcgaactcatgacaggctataccatgttgcg
M T G Y T M L R

490 500 510 520 530 540
gaatgggggagtggggaacgggtgggtcagacctgtatgctgcgctgggtccaatcgcatccg
N G G V G N G G Q T C M L R W S N R I R

550 560 570 580 590 600
gctgacatggctgagttttcacgctgttcacatcctcgtcttcttccccctcattgctca
L T W L S F T L F I I L V F F P L I A H

610 620 630 640 650 660
ctattacctcaccactctggacgaggcagacgaggctggcaagcgcacatcttcggccctcg
Y Y L T T L D E A D E A G K R I F G P R

670 680 690 700 710 720
ggctggcagtgagctctgtgaggtaaagcatgtccttgatctctgtcggattcgtgagtc
A G S E L C E V K H V L D L C R I R E S

TOP SECRET

15/35
FIG. 7B-2

730 740 750 760 770 780
tgtgagcgaagagcttctacagctcgaagccaagcggcaggagctgaacagcgagattgc
V S E E L L Q L E A K R Q E L N S E I A

790 800 810 820 830 840
caagctgaacctcaagattgaagcctgtaagaagagcatagagaatgccaagcaggacct
K L N L K I E A C K K S I E N A K Q D L

850 860 870 880 890 900
gctgcagctcaagaatgtcattagccagacagagcactcctacaaggagctgatggccca
L Q L K N V I S Q T E H S Y K E L M A Q

910 920 930 940 950 960
gaaccagcccaactgtccctgcccatccgactgctccctgagaaggacgatgccggcct
N Q P K L S L P I R L L P E K D D A G L

970 980 990 1000 1010 1020
tccaccccccaaggctcactcggggttgccgccttcacaactgctttgattactctcgttg
P P P K V T R G C R L H N C F D Y S R C

1030 1040 1050 1060 1070 1080
tcctctgacgtctggctttcccgctctacgtctatgacagtgaccagtttgcccttgagg
P L T S G F P V Y V Y D S D Q F A F G S

1090 1100 1110 1120 1130 1140
ctacctggacccttttggtcaagcaggcttttcaggctacagtgagagccaacgtttatgt
Y L D P L V K Q A F Q A T V R A N V Y V

1150 1160 1170 1180 1190 1200
tacagaaaatgcggccatgcgctgctgtatgtggtgtagtgggagaaaatgcaagagcc
T E N A A I A C L Y V V L V G E M Q E P

1210 1220 1230 1240 1250 1260
cactgtgctgcggcctgccgaccttgaaaagcagctgttttctctgccacactggaggac
T V L R P A D L E K Q L F S L P H W R T

1270 1280 1290 1300 1310 1320
agatgggcacaaaccagtcattatcaacctgtcccggaaagtcagacacacagaatctact
D G H N H V I I N L S R K S D T Q N L L

1330 1340 1350 1360 1370 1380
gtacaacgtcagtacaggccgcatgtggccagtcaccctctatgctgccagtacag
Y N V S T G R H V A Q S T L Y A A Q Y R

1390 1400 1410 1420 1430 1440
agctggctttgacctggctgtgcaccccttgccatgctatgtctgaacccaacttcat
A G F D L V V S P L V H A M S E P N F M

1450 1460 1470 1480 1490 1500
ggaaatcccaccgcaggtgccagttaagcggaaatatctcttcactttccagggcgagaa
E I P P Q V P V K R K Y L F T F Q G E K

SEQUENCE 02660360

FIG. 7B-3

[illegible]

1570 1580 1590 1600 1610 1620
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D P P A D Y D D R I I A T L K A V Q D S

1630 1640 1650 1660 1670 1680
caagctggatcagggtgctggtagaattcacttgcaaaaaccagccgaagcctagcctgcc
K L D Q V L V E F T C K N Q P K P S L P

1690 1700 1710 1720 1730 1740
gactgagtgggcactgtgtggggagcggggaagaccgcctggagttactgaagctctccac
T E W A L C G E R E D R L E L L K L S T

1750 1760 1770 1780 1790 1800
cttcgccctcatcatcactccccggggaccgcgcctgctcatttcattctgggtgtgccac
F A L I I T P G D P R L L I S S G C A T

1810 1820 1830 1840 1850 1860
g c g g g c t c t t c g a g g c c c t g g a g g t g g g g g c c g t g c c g g t g g t g c t c g g g g a g c a g g t g c a
R L F E A L E V G A V P V V L G E Q V Q

1870	1880	1890	1900	1910	1920
gctcccg	taccacg	acatgct	gcagtg	ggaacg	aggccgc
L	P	Y	H	D	M
L	Q	W	N	E	A
A	A	L	V	V	P
K	P	R			

1930	1940	1950	1960	1970	1980
cg	tc	ac	ag	gt	cc
act	tc	ct	gt	tac	ga
ag	gt	tct	ttc	gtt	ac
gt	ttc	gtt	ac	gt	gt
gat	ctg	ttg	gcc	at	gag
gag	atg	atg	atg	atg	atg
V	T	E	V	H	F
L	L	R	S	L	S
D	S	D	L	L	A
M	R				

1990 2000 2010 2020 2030 2040

gcgggcaaggccgctttctctgggagacctacttctccaccgcagacagtatttttaatac

R O G R F L W E T Y F S T A D S I F N T

2050 2060 2070 2080 2090 2100
cgtgctggccatgattaggactcgaattcagatcccagctgctcccatccgggaagaggt
V L A M I R T R I O I P A A P I R E E V

2110 2120 2130 2140 2150 2160
agcggctgagatcccccatcggttcaggcaaagcagctggaactgaccccaacatggctga
A A E I P H R S G K A A G T D P N M A D

2170 2180 2190 2200 2210 2220
caatggggacctgggacctggggccggtagagacagaaccacccctatgcctcacctaaata
N G D L D L G P V E T E P P Y A S P K Y

2230 2240 2250 2260 2270 2280
cctccgcaatttcactctgactgtcacagactgttaccgtggctggaaactctgccccggg
L R N F T L T V T D C Y R G W N S A P G

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FIG. 7B-4

2290 2300 2310 2320 2330 2340
acggttccatctttttccccacacaccctttgatcctgtgttgccctctgaggccaaatt
R F H L F P H T P F D P V L P S E A K F

2350 2360 2370 2380 2390 2400
cttgggctcagggactggatttcggccgatcgggtggcggggctgggggctctggcaagga
L G S G T G F R P I G G G A G G S G K E

2410 2420 2430 2440 2450 2460
gttccaggcagcgctcggaggcaatgtccagcgggagcagttcacagttgtgatgctgac
F Q A A L G G N V Q R E Q F T V V M L T

2470 2480 2490 2500 2510 2520
ctacgagcgggaggaagtgtcatgaactccctggagagactcaacggcctccctacct
Y E R E E V L M N S L E R L N G L P Y L

2530 2540 2550 2560 2570 2580
gaacaaggtagtggtggtgtggaactctcccaagctgccctcggaggaccttttgtggcc
N K V V V V W N S P K L P S E D L L W P

2590 2600 2610 2620 2630 2640
agacattggtgtccccatcatggtcgtccgtactgagaagaacagtttgaacaatcgggt
D I G V P I M V V R T E K N S L N N R F

2650 2660 2670 2680 2690 2700
cttgccttggaatgagattgagacagaggccatactgtccatcgacgatgatgctcacct
L P W N E I E T E A I L S I D D D A H L

2710 2720 2730 2740 2750 2760
ccgccatgatgaaatcatgtttgggttttgggtgtggagagaagcacgtgatcgattgt
R H D E I M F G F W V W R E A R D R I V

2770 2780 2790 2800 2810 2820
gggtttccctggccggtaccatgcgtgggacatcccgccaccagtcctggctctacaattc
G F P G R Y H A W D I P H Q S W L Y N S

2830 2840 2850 2860 2870 2880
caactactcctgtgagctgtccatggtgctgacgggcgctgccttctttcacaagtatta
N Y S C E L S M V L T G A A F F H K Y Y

2890 2900 2910 2920 2930 2940
tgccctacctgtattcttatgtgatgccccaggccatccgggacatggtggacgagtacat
A Y L Y S Y V M P Q A I R D M V D E Y I

2950 2960 2970 2980 2990 3000
caactgtgaggatatacgccatgaacttccttgtctcccatcacacggaaccccccat
N C E D I A M N F L V S H I T R K P P I

3010 3020 3030 3040 3050 3060
caagggtgacatcaagggtggacttttcgatgcccgagggtgccctcaggccctgtcccatga
K V T S R W T F R C P G C P Q A L S H D

TOPPED 02660060

FIG. 7B-5

3070 3080 3090 3100 3110 3120
tgactctcattttcacgagcggcacaagtgtatcaactttttgtcaaggtgtacggcta
D S H F H E R H K C I N F F V K V Y G Y

3130 3140 3150 3160 3170 3180
tatgcctctctgtacacacagttcaggggtggactccgtgctcttcaagacccgcctgcc
M P L L Y T Q F R V D S V L F K T R L P

3190 3200 3210 3220 3230 3240
ccatgacaagaccaagtgttcaagttcatctagggccttgagttctgaggagacaatg
H D K T K C F K F I *

3250 3260 3270 3280 3290 3300
agcagagcgagggggagtcaccctcaaggttcccaaggtgtcgaaggtccttggggacat

3310 3320 3330 3340 3350 3360
ctgtcgggcagggccaagaccctttgctgggagaggcagcaggaagagtggaaagggata

3370 3380 3390 3400 3410 3420
gctgtctttcattttgaagtcagccacactgggcctgggatcctggtcagagactcaggn

3430 3440 3450 3460 3470
cgctctgcacagggcactgactgatagcgaacactgaggactgttcataagcccaggaca

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FIG. 8B-1

```

      10      20      30      40      50      60
ggcggggtccctgagctggaagccggagagcaagccctggaggttcactctttcaagaagt

      70      80      90     100     110     120
cgtgtgctgaggtgtaatgctacacaagtcagaggaaggaagggctcctgaaacacatggc

     130     140     150     160     170     180
ctgattgttggcaaaggcatcataagaagctggcatttatttctgttctaactattact

     190     200     210     220     230     240
gtataactgtgaatagacactatgcatatttgttggtcagcaaaaccaagaaacaagagc

     250     260     270     280     290     300
tatggcatttgaaaaagtctgtctgattccaggggtgttttctcctgggtttcatcatcagg

     310     320     330     340     350     360
tacctcctccctttcatctcagcaagaatgtggcaccttttatcgtttgataaagattaa

     370     380     390     400     410     420
ggacatgttcttttggtcaacagccagaacttaaaatctgctggaatagggtcagagacca

     430     440     450     460     470     480
tttcagctgcagctgagggaaaatgaaatgttcattttatttgggtgccttgtctggggagc

     490     500     510     520     530     540
acactaactcttctggaaacgtgtcagtgaaacagagatcgttttgtggaatagcaaccc

     550     560     570     580     590     600
atggttatggcgagtgacccgacgtgatctggggggcaggctgcagaggactcatgacag
                                     M T G

     610     620     630     640     650     660
gctataaccatgctgcggaatgggggcgcggggaacggaggtcagacctgcatgctgcgct
Y T M L R N G G A G N G G Q T C M L R W

     670     680     690     700     710     720
ggtccaaccgcateccgcctcacgtgggtcagcttcacgctctttgtcatcctggtcttct
S N R I R L T W L S F T L F V I L V F F

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FIG. 8B-2

730 740 750 760 770 780
tccccgtcatcgcccactattacctcaccactctggatgaggctgatgaggcaggcaagc
P L I A H Y Y L T T L D E A D E A G K R

790 800 810 820 830 840
ggatttttgggtccccgggtggggaacgagctgtgcgagggtgaagcacgtgctggatctgt
I F G P R V G N E L C E V K H V L D L C

850 860 870 880 890 900
gccgcacccgggagtcggtgagtgagagctcctgcagctggaggccaagcgccaagagc
R I R E S V S E E L L Q L E A K R Q E L

910 920 930 940 950 960
tgaacagcgagatcgccaagctgaatctgaagatcgaagcctgtaagaagagcattgaga
N S E I A K L N L K I E A C K K S I E N

970 980 990 1000 1010 1020
acgccaagcaggacctgctccagctcaagaatgtcatcagccagaccgagcattcctaca
A K Q D L L Q L K N V I S Q T E H S Y K

1030 1040 1050 1060 1070 1080
aggagctcatggcccagaaccagcccaagctgtccctgcccatccgactgctcccagaga
E L M A Q N Q P K L S L P I R L L P E K

1090 1100 1110 1120 1130 1140
aggacgatgccggcctccctccccgaaggccactcggggctgccggctacacaactgct
D D A G L P P P K A T R G C R L H N C F

1150 1160 1170 1180 1190 1200
ttgattattctcggttgccctctcacctctggcttcccgggtctacgtctatgacagtgacc
D Y S R C P L T S G F P V Y V Y D S D Q

1210 1220 1230 1240 1250 1260
agtttgtctttggcagctacctggatcccttgggtcaagcaggcttttcaggcgacagcac
F V F G S Y L D P L V K Q A F Q A T A R

1270 1280 1290 1300 1310 1320
gagctaacgtttatgttacagaaaatgcagacatcgccctgcctttacgtgatactagtgg
A N V Y V T E N A D I A C L Y V I L V G

1330 1340 1350 1360 1370 1380
gagagatgcaggagcccgtggtgctgcggcctgctgagctggagaagcagttgtattccc
E M Q E P V V L R P A E L E K Q L Y S L

1390 1400 1410 1420 1430 1440
tgccacactggcggacggatggacacaaccatgtcatcatcaatctgtcacgtaagtcag
P H W R T D G H N H V I I N L S R K S D

1450 1460 1470 1480 1490 1500
atacacagaaccttctctataacgtcagtactggccgtgccatgggtggcccagtcacac
T Q N L L Y N V S T G R A M V A Q S T F

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FIG. 8B-3

1510 1520 1530 1540 1550 1560
tctacactgtccagtacagacctggctttgacttggtcgtatcacccgtgggtccatgccca
Y T V Q Y R P G F D L V V S P L V H A M

1570 1580 1590 1600 1610 1620
tgtctgagcccaacttcatggaaatcccaccacaggtgccggtgaagcggaaatatctct
S E P N F M E I P P Q V P V K R K Y L F

1630 1640 1650 1660 1670 1680
tcaccttccagggcgagaagattgagtctctgaggtctagccttcaggaggcccgtcct
T F Q G E K I E S L R S S L Q E A R S F

1690 1700 1710 1720 1730 1740
tcgaagaggaaatggagggcgacctcccgcgactacgatgaccggatcattgccaccc
E E E M E G D P P A D Y D D R I I A T L

1750 1760 1770 1780 1790 1800
tgaagggcgggtgcaggacagcaagctggatcaggtcctgggtggaattcacctgcaaaaacc
K A V Q D S K L D Q V L V E F T C K N Q

1810 1820 1830 1840 1850 1860
agcccaaaccagcctgccgactgagtgggcactgtgtggagagcgggaggaccgcttgg
P K P S L P T E W A L C G E R E D R L E

1870 1880 1890 1900 1910 1920
aattgctgaagctctccaccttcgcctcatcattacccccggggaccctcgcttggtta
L L K L S T F A L I I T P G D P R L V I

1930 1940 1950 1960 1970 1980
tttctctgggtgtgcaacacggctcttcgaagccctggaagtcgggtgccgtcccgggtgg
S S G C A T R L F E A L E V G A V P V V

1990 2000 2010 2020 2030 2040
tgctgggggagcaggtccagcttccctaccaggacatgctgcagtggaaacgaggcgggccc
L G E Q V Q L P Y Q D M L Q W N E A A L

2050 2060 2070 2080 2090 2100
tggtgggtgccaaagcctcgtgttaccgaggttcatttctctgctcagaagcctctccgata
V V P K P R V T E V H F L L R S L S D S

2110 2120 2130 2140 2150 2160
gtgacctcctggctatgaggcggcaaggccgctttctctgggagacttacttctccactg
D L L A M R R Q G R F L W E T Y F S T A

2170 2180 2190 2200 2210 2220
ctgacagtatttttaataaccgtgctggctatgattaggactcgcatccagatcccagccg
D S I F N T V L A M I R T R I Q I P A A

2230 2240 2250 2260 2270 2280
ctcccatccgggaagaggcggcagctgagatccccaccgttcaggcaaggcgggtggaa
P I R E E A A A E I P H R S G K A A G T

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2290 2300 2310 2320 2330 2340
ctgaccccaacatggcgtgacaacggggacctggacctggggccagtgaggacggagccgcg
D P N M A D N G D L D L G P V E T E P P

2350 2360 2370 2380 2390 2400
cctacgcctcaccagatacctccgcaatttcactctgactgtcactgacttttacgcga
Y A S P R Y L R N F T L T V T D F Y R S

2410 2420 2430 2440 2450 2460
gctggaactgtgctccagggcctttccatctttttccccacactccctttgaccctgtgt
W N C A P G P F H L F P H T P F D P V L

2470 2480 2490 2500 2510 2520
tgccctcagaggccaaattcttgggctcagggactggccttcggcctattgggtggagg
P S E A K F L G S G T G F R P I G G G A

2530 2540 2550 2560 2570 2580
ctgggggttctggcaaggaatttcaggcagcgcttgagggaatgttccccgagagcagt
G G S G K E F Q A A L G G N V P R E Q F

2590 2600 2610 2620 2630 2640
tcacggtggatgttgacttatgagcgggaggaagtgccttatgaactcttttagagaggc
T V V M L T Y E R E E V L M N S L E R L

2650 2660 2670 2680 2690 2700
tgaatggcctcccttacctgaacaaggctcggtgggtgtggaattctcccaagctgccat
N G L P Y L N K V V V V W N S P K L P S

2710 2720 2730 2740 2750 2760
cagaggaccttctgtggcctgacattggcgcttcccatcatgggtgggtccgtactgagaaga
E D L L W P D I G V P I M V V R T E K N

2770 2780 2790 2800 2810 2820
acagtttgaacaaccgattcttaccctggaatgaaattgagacagaggccatcctgtcca
S L N N R F L P W N E I E T E A I L S I

2830 2840 2850 2860 2870 2880
ttgatgacgatgctcacctccgccatgacgaaatcatgtttgggttccgggtgtggagag
D D D A H L R H D E I M F G F R V W R E

2890 2900 2910 2920 2930 2940
aagctcgggaccgcatcgtgggcttccctggccgttaccacgcatgggacatcccccatc
A R D R I V G F P G R Y H A W D I P H Q

2950 2960 2970 2980 2990 3000
agtccctggctctacaactccaactactcctgtgagctgtccatgggtgctgacaggtgctg
S W L Y N S N Y S C E L S M V L T G A A

3010 3020 3030 3040 3050 3060
ccttctttcacaagtattatgcctacctgtattcttatgtgatgccccaggccatccggg
F F H K Y Y A Y L Y S Y V M P Q A I R D

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FIG. 8B-5

3070 3080 3090 3100 3110 3120
acatggtggatgaatacatcaactgtgaggacattgccatgaacttccttgtctcccaca
M V D E Y I N C E D I A M N F L V S H I

3130 3140 3150 3160 3170 3180
tcactcgggaagcccccatcaaggtgacctcacggtggacattccgatgccaggtatgcc
T R K P P I K V T S R W T F R C P G C P

3190 3200 3210 3220 3230 3240
ctcagggcctgtctcatgatgactcccacttccacgagcggcacaagtgcatacaacttct
Q A L S H D D S H F H E R H K C I N F F

3250 3260 3270 3280 3290 3300
tcgtgaagggtgtacggctacatgccccctcctgtacacgcagttcaggggtggattctgtgc
V K V Y G Y M P L L Y T Q F R V D S V L

3310 3320 3330 3340 3350 3360
tcttcaagacacgcctgccccatgacaagaccaagtgttcaagttcatctaggggcagc
F K T R L P H D K T K C F K F I *

3370 3380 3390 3400 3410 3420
gcacggtctggggaagaggatgagcagagggaggaagatggctcccaaggttcctaggca

3430 3440 3450 3460 3470 3480
ttgcaggaccttgggcacatctgctggtgggtggcccagagcctctgctggaaggggcag

3490 3500 3510 3520 3530 3540
caggaggagtgggaaggaaaccgctgcctttatcttgaagtcagccacactgggcctggag

3550 3560 3570 3580 3590 3600
ccctgggcggagtcctcccggttccccacacagggcactgactgatagcttacactgagg

3610 3620 3630 3640 3650 3660
actgtggcgactctgcagagtcactcacaccgttcgtacgcccaggacagctggttcgtg

3670 3680 3690 3700 3710 3720
gtttttacattcaataacaactattatgattatttaaaaagagaaagtttcagatttgcc

3730 3740 3750 3760 3770 3780
attcaaggcttatttatatatatgtgtgtgtatataaaatacatgcacacacttgcataca

3790 3800 3810 3820 3830 3840
tatatatattttggctgggggagtgtagtatttgcctttctaagggagggaccgcgcaggc

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FIG. 8B-6

3850 3860 3870 3880 3890 3900
tcctttgttctgtattctggcggagatgggtcctggccttgtgtcactggcttatcctta

3910 3920 3930 3940 3950 3960
aagatcatctcccatcctccccagcgccatctgtgtgcagcaaccagaaagggatgaact

3970 3980 3990 4000 4010 4020
tggccctcttgcgggcctggacaaggtctcttccttaccctttctgttgccagtcagcaa

4030 4040 4050 4060 4070 4080
cctgtaactcacattctcttcccagtgaaatccctgggagcgccctgaccctgggtgggctgt

4090 4100 4110 4120 4130 4140
tcagcttcctgctgctggggccagcgatttttgaggatttatctttaggccaggcttgcc

4150 4160 4170 4180 4190 4200
tccgtacttatccctgctctcccatttctctcttgtttgagagagaatgaggaagcaaag

4210 4220 4230 4240 4250 4260
agtgagaaagaataggggctgaagacgccactcccagatgggtctttctatcctgtctt

4270 4280 4290 4300 4310 4320
ctgttgaaacacacgtgctgtgggcctcaggcgtttctgaagtgtcttttcttggttgg

4330 4340 4350 4360 4370 4380
acaggagatcagcagcggtgcacatctgctgtggtctgaagtgggttgccaggtcagcctcc

4390 4400 4410 4420 4430 4440
tctccctagtgtagagcaagccagtgctccttcgaggaacccacccggctggccgggaagt

4450 4460 4470 4480 4490 4500
tttacagcaaggcgccctggccttgggataattccttgggtgaaattcaccttccccccgcct

4510 4520 4530 4540 4550 4560
ctgtctggagccccatcctgtgttatctgtgggttttggacccctaatagtcagcttggct

4570 4580 4590 4600 4610 4620
gtaggactccccgaggttgggtatgtgctagaacaatgggagggctgtgatttgctgtgta

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FIG. 8B-7

4630 4640 4650 4660 4670 4680
agctcacatccagccttggaatctaacgggcattcacaccgagttaccactttccact

4690 4700 4710 4720 4730 4740
ccctgcttaggattctgttccctgggctgaaactgaaataagctaatttttgggtcacg

4750 4760 4770 4780 4790 4800
gtggcagtaggggaacctaggagggtgtgagtggcatttgtcagggatttagcccatgac

4810 4820 4830 4840 4850 4860
gtgtttcttgaaacctactttctggaagtggagttgactctggaagtttctagcaactg

4870 4880 4890 4900 4910 4920
aacaaaagctcaggtttgtcctgggtcatgcacatgccttaagccagttccgtcttcccta

4930 4940 4950 4960 4970 4980
gaccttggcatcctgtgtcttctatttcttgggaatacgttctcctctgacctgacctgtacc

4990 5000 5010 5020 5030 5040
acgtgggtcctcttcaagtactgttttgaagctgggctcttttgtgtagctcccaccac

5050 5060 5070 5080 5090 5100
ctgtagggttagctcggttaagggaactctccccattggcaaaccggaccggcgccgcg

5110 5120 5130 5140 5150 5160
ccaggactgtgtttccaaagggttccccgcccccaacccagcatcagcctgtagctcccc

5170 5180 5190 5200 5210 5220
tgctgaggcagtggtgttatgttcccagcagtgggggtcagacgcccttctcagaactt

5230 5240 5250 5260 5270 5280
tctagttgccctctacctgactcctgacttgatttctttagcagtagccttcttccct

5290 5300 5310 5320 5330 5340
cggggagccaaagagtgtggtgtgtggcgctatatattgtggctgctatttcatctggtttc

5350 5360 5370 5380 5390 5400
ttttaatgtgaggaactcacatactgacttcagtgaggactcggtgagccggggccgtctg

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FIG. 8B-8

5410 5420 5430 5440 5450 5460
tgtggtgggaccccccttagcgggactcagtgagctggggccgtctgtgtggtggagcca

5470 5480 5490 5500 5510 5520
gggcctctcccccttagtgaggagccaggttgctggggccccgaatgtcactggtggatctaag

5530 5540 5550 5560 5570 5580
aagggctgagtgggtctgacacaaaaacatgccgcagggagggctgtggtgcccgtgcttc

5590 5600 5610 5620 5630 5640
caacaaggacagccctccttgaccctgaaaggaacactggcttgaaggactgcagacagg

5650 5660 5670 5680 5690 5700
ctctgaggggacgcctcctcagcgagaggcagcaaggtggccacagtgtcactggtca

5710 5720 5730 5740 5750 5760
ggtgcttctcaccacgggaaagccgcccagctgtgactcgcttgagatgggaaagcggcg

5770 5780 5790 5800 5810 5820
ccacagacccccgggtctccttggtgtgtctgtgggcccgccttgggcaccttgctcctgggt

5830 5840 5850 5860 5870 5880
cgcaggggtgcaggagcgctcgttctctgggtggccggcttgctgctccggtttgggctg

5890 5900 5910 5920 5930 5940
tcttaccataaacaccgtcccagggtctgagggccactgtgagcgctgggtccctgggca

5950 5960 5970 5980 5990 6000
gtgctcctccgtgtggactgtgcctcaggccagggtcaccagctggggtcctgtccgga

6010 6020 6030 6040 6050 6060
aggatgggatctttctgggagctgcgcccggacagagtgggagctcctagtttgtggggg

6070 6080 6090 6100 6110 6120
gaagctttgatatccatgccacgtccatccacccccaccccttttcgtcacgagcacaatg

6130 6140 6150 6160 6170
gtcttacattggatttttgtaaaaaaataaaaataaatggagactttaactc

FILED 0250260

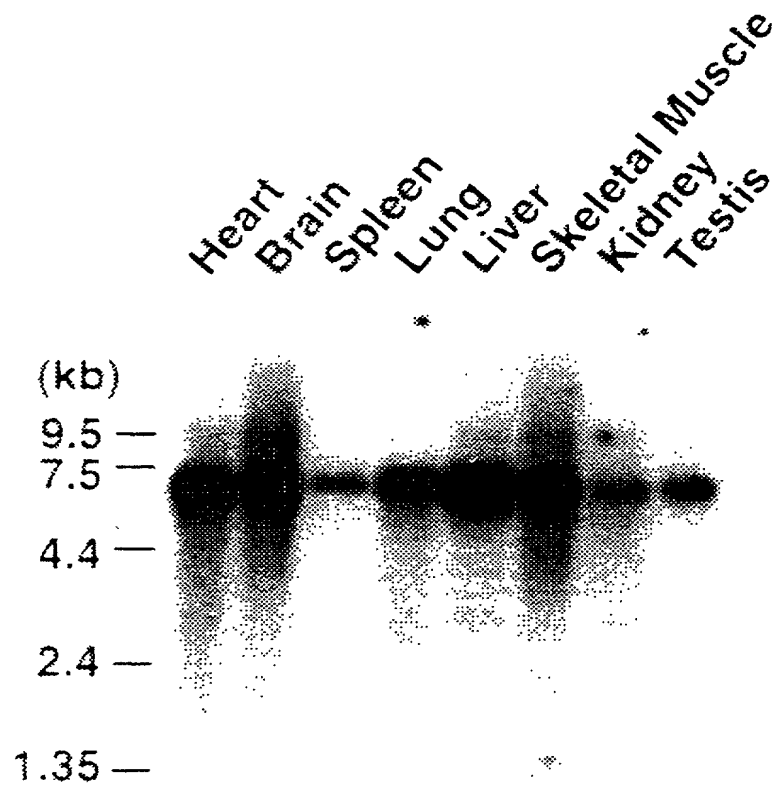
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FIG. 9A

Murine TREX	1	MTGYTMLRNGGV	GNNGGQTCMLRWSNRIRLTWLSFTLF	ILVFFPLIAHYLTTLD	DEADEA
Human TREX	1	MTGYTMLRNGGAG	NGGQTCMLRWSNRIRLTWLSFTLF	ILVFFPLIAHYLTTLD	DEADEA
Murine TREX	61	GKRIFGPRAGSEL	CEVKHVLDLCRIRESVSEELLQLEAKRQELNSE	IAKLN	NKTEACKKS
Human TREX	61	GKRIFGPRVGNEL	CEVKHVLDLCRIRESVSEELLQLEAKRQELNSE	IAKLN	NKTEACKKS
Murine TREX	121	IENAKQDLLQLKNV	ISQTEHSYKELMAQNQPKLSLPIRLLPEKDDAGLPPPKV	TRG	CRLH
Human TREX	121	IENAKQDLLQLKNV	ISQTEHSYKELMAQNQPKLSLPIRLLPEKDDAGLPPPKA	TRG	CRLH
Murine TREX	181	NCFDYSRCPLTSG	FPVYVYDSQFAFGSYLDPLVKQAFQATVRANVYVTENA	AIAC	LYVV
Human TREX	181	NCFDYSRCPLTSG	FPVYVYDSQFVFGSYLDPLVKQAFQATARANVYVTEN	ADIAC	LYVI
Murine TREX	241	LVGEMQEPITVLR	PADLEKQLFSLPHWRTDGHNVHVIINLSRKSDTQNL	LYNVSTGR	H-VAQ
Human TREX	241	LVGEMQEPVWLR	PAELEKQLMSLPHWRTDGHNVHVIINLSRKSDTQNL	LYNVSTGR	AMVAQ
Murine TREX	300	STLYAAQYRAG	FDLVVSPLVHAMSEPNFMEIPPQVPVKRKYLF	TFQGEKIES	LRSSLQEA
Human TREX	301	STFYTVQYRPG	FDLVVSPLVHAMSEPNFMEIPPQVPVKRKYLF	TFQGEKIES	LRSSLQEA
Murine TREX	360	RSFEEEMEGDPP	ADYDDRIIATLKAVQDSKLDQVLVEFTCKNQPKPSL	PT	EWALCGERED
Human TREX	361	RSFEEEMEGDPP	ADYDDRIIATLKAVQDSKLDQVLVEFTCKNQPKPSL	PT	EWALCGERED
Murine TREX	420	RLELLKLSTFALI	ITPGDPRLLISSGCATRLFEALEVGAVPVVLGEQV	QLPYH	DMLOWNE
Human TREX	421	RLELLKLSTFALI	ITPGDPRLLISSGCATRLFEALEVGAVPVVLGEQV	QLPYQ	DMLOWNE
Murine TREX	480	AALVVPKPRVTE	VHFLRLSLSDSLLAMRRQGRFLWETYFSTADSIFNT	VLAMIRTRI	QI
Human TREX	481	AALVVPKPRVTE	VHFLRLSLSDSLLAMRRQGRFLWETYFSTADSIFNT	VLAMIRTRI	QI
Murine TREX	540	PAAPIREEMAAE	I PHRSGKAAGTDPNMADNGDLDLGPVETEPPYAS	PKYL	RNFTLTVTDC
Human TREX	541	PAAPIREEMAAE	I PHRSGKAAGTDPNMADNGDLDLGPVETEPPYAS	PKYL	RNFTLTVTDF
Murine TREX	600	YRGWNSAPGR	FHLFPHTPFDVPLPSEAKFLGSGTGFRPIGGGAGGSG	KEFQAAL	GGNVQR
Human TREX	601	YRSWNCAPGP	FHLFPHTPFDVPLPSEAKFLGSGTGFRPIGGGAGGSG	KEFQAAL	GGNVPR
Murine TREX	660	EQFTVVMLTYER	EEVLMNSLERLNGLPYLNKVVVVWNSPKLPSEDLL	WPDIGVP	IMVVRT
Human TREX	661	EQFTVVMLTYER	EEVLMNSLERLNGLPYLNKVVVVWNSPKLPSEDLL	WPDIGVP	IMVVRT
Murine TREX	720	EKNSLNNRFLP	WNEIETEAILSIDDDAHLRHDEIMFGFWVWREAR	DRIVGF	PGRYHAWDI
Human TREX	721	EKNSLNNRFLP	WNEIETEAILSIDDDAHLRHDEIMFGFRVWREAR	DRIVGF	PGRYHAWDI
Murine TREX	780	PHQSWLYNSNY	SCELSMVLTGAFFHKYYAYLYSYVMPQAIRDMV	DEYINCE	DIAMNFLV
Human TREX	781	PHQSWLYNSNY	SCELSMVLTGAFFHKYYAYLYSYVMPQAIRDMV	DEYINCE	DIAMNFLV
Murine TREX	840	SHITRKPPIKV	TSRWTFRCPGCPQALSHDDSHFHERHKCINFFV	KVGYMPL	LYTQFRVD
Human TREX	841	SHITRKPPIKV	TSRWTFRCPGCPQALSHDDSHFHERHKCINFFV	KVGYMPL	LYTQFRVD
Murine TREX	900	SVLFXTRLPH	DKTKCFKFI		
Human TREX	901	SVLFXTRLPH	DKTKCFKFI		

FIG. 9A

FIG. 9B



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FIG. 10A

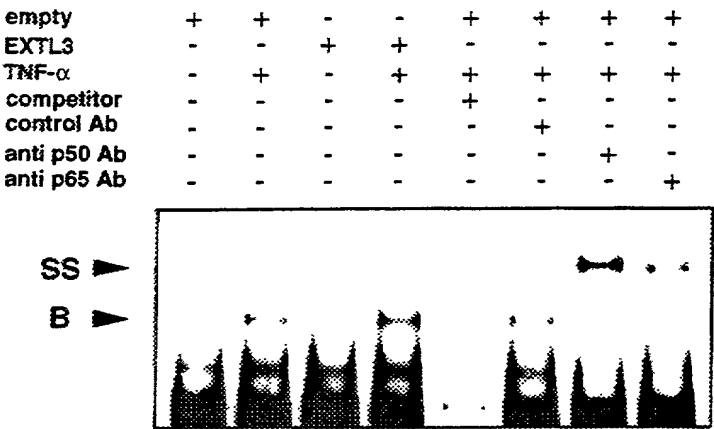


FIG. 10B

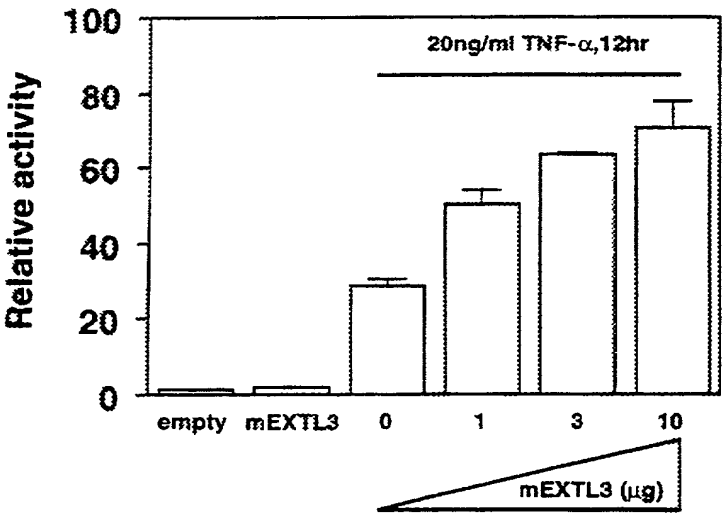


FIG. 10C

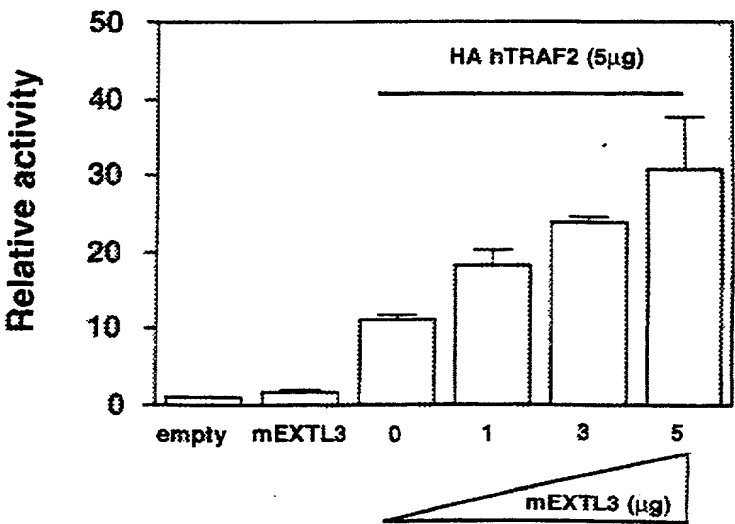


FIG. 11A

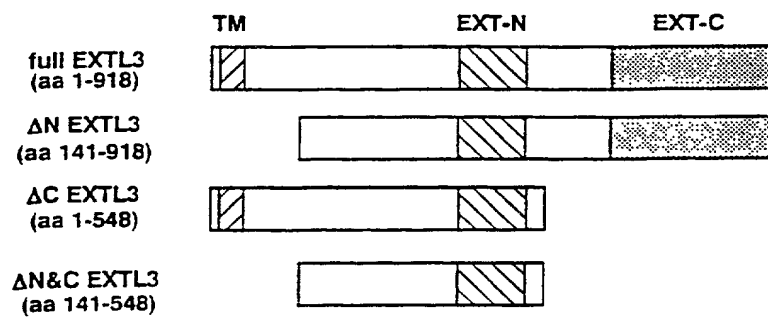


FIG. 11B

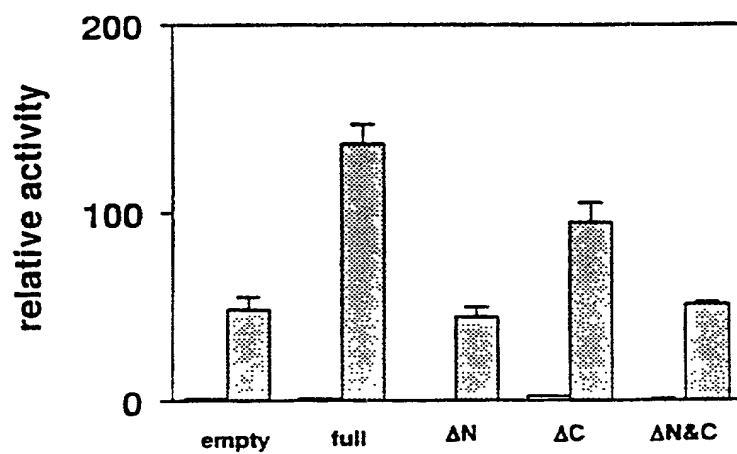


FIG. 11C

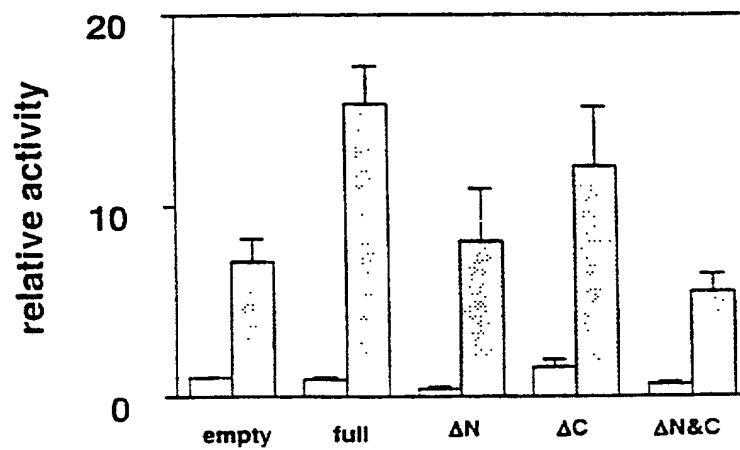


FIG. 11D-a

FIG. 11D-b

FIG. 11D-c

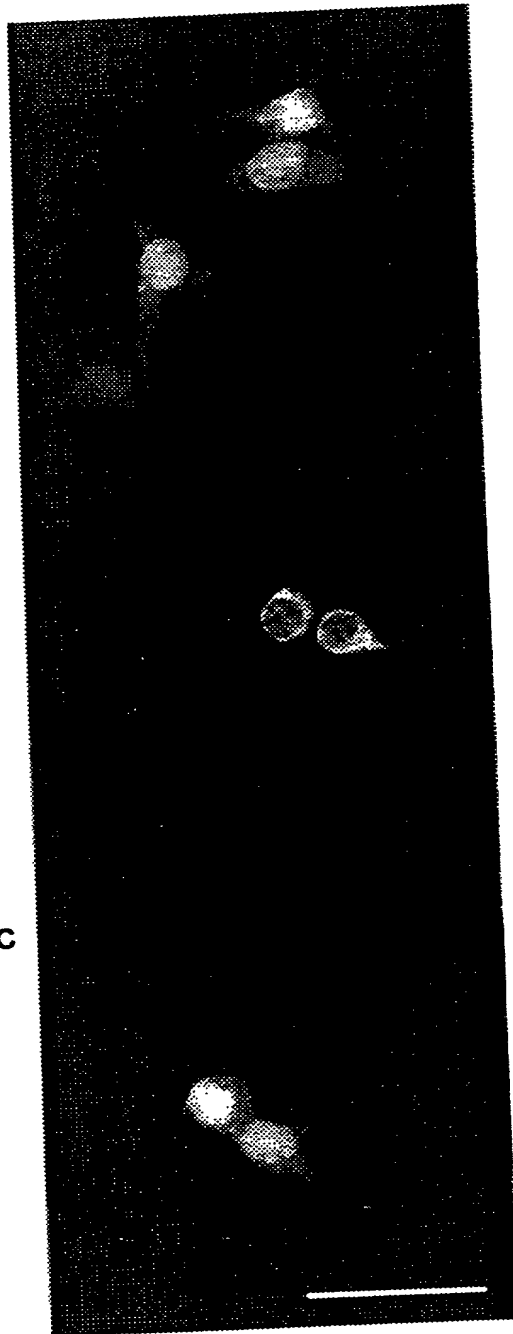


FIG. 12A

FIG. 12E

FIG. 12B

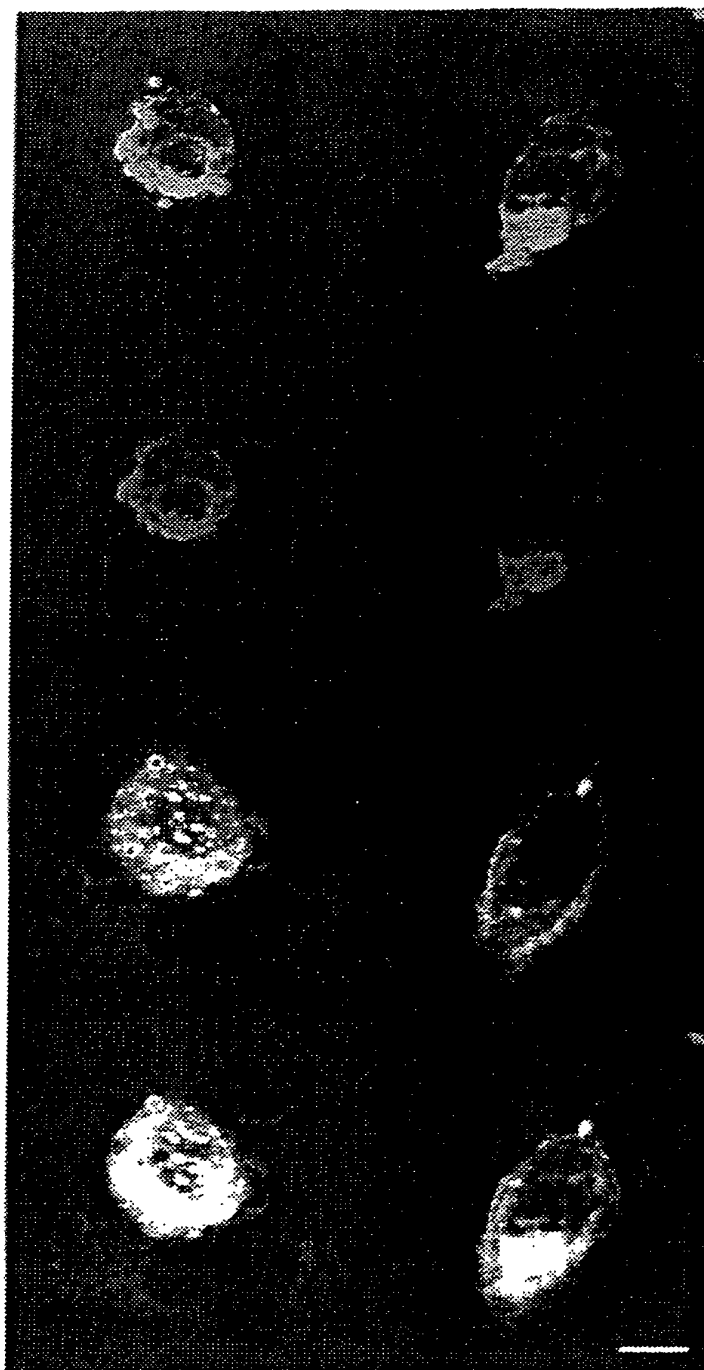
FIG. 12F

FIG. 12C

FIG. 12G

FIG. 12D

FIG. 12H



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